Index of Claims

| App | licatio | n/Co | ntrol | No. |
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09/976,080

Examiner

Duy M. Dang

Applicant(s)/Patent under Reexamination

BLACK, GERALD R.

Art Unit

2627

| <b>√</b> | Rejected |
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| _        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| 0 | Objected |

| Cla        | aim  | n Date                                 |                |              |              |          |          | Claim Date     |          |          |          |          |                |           | 1        | Claim    |          |          |          |               | Date          |          |       |          |          |                 |           |          |          |          |               |           |          |
|------------|--|--|----------------|--------------|--------------|----------|----------|----------------|----------|----------|----------|----------|----------------|-----------|----------|----------|----------|----------|----------|---------------|---------------|----------|-------|----------|----------|-----------------|-----------|----------|----------|----------|---------------|-----------|----------|
|            |  | 2/                                     |                |              |              |          |          |                |          |          |          |          | T              |           |          |          |          | $\neg$   |          |               |               | 1        |       |          |          |                 | П         | $\neg$   |          | $\neg$   | Т             | Т         | $\neg$   |
| Final      | Original   | 36                                     |                |              |              |          |          |                |          |          | 7        | Original |                |           |          |          |          |          |          |               |               |          | Final | Original |          |                 |           |          |          |          |               |           |          |
| 듄          | Ę.   | 4                                      |                |              |              |          |          |                |          |          | Final    | ٤. ا     | ?              | - 1       |          |          |          | - 1      |          |               |               | 1 1      | ᇤ     | Τġ       |          |                 |           |          |          |          |               |           |          |
|            | 0  | 14                                     |                |              |              |          |          |                |          |          |          | C        | ۱ ۱            |           |          |          |          |          |          |               |               | ΙI       |       | 0        |          |                 |           |          |          |          |               |           | ı        |
|            | 1  | Н                                      | $\vdash$       |              | $\vdash$     | Н        | $\vdash$ | Н              | $\dashv$ | $\neg$   | 3        | 5 5      | 1              | <u>~</u>  | ᅥ        |          | $\vdash$ | _ †      | -        | _             |               | 1 1      |       | 101      |          | -               | 7         | $\dashv$ | 一        | $\dashv$ | +             | 十         | ᅱ        |
| -          | 1  | Н                                      | Н              |              |              | Н        |          | H              | $\dashv$ | $\dashv$ | 3        | 7 6      |                | П         | _        |          |          | $\dashv$ | _        | $\dashv$      | _             | 1 1      |       | 102      | _        |                 |           | $\dashv$ | $\dashv$ | $\dashv$ | +             | $\dashv$  | $\dashv$ |
|            | 1  | H                                      | $\vdash$       |              | H            | H        |          | H              | _        | $\dashv$ | 11       | ) 5      | ₹┼             | ╁         | _        |          | -        |          | -+       | -+            |               | 1 1      |       | 103      | _        | -               | ┪         | $\dashv$ | ᅱ        | $\dashv$ | $\dashv$      | $\dashv$  | ᅥ        |
| _          | <del>                                     </del> | $\vdash$                               |                | -            | ├            | H        | Н        | Н              | - 1      | $\dashv$ | 2        |          | <del>:  </del> | ╀┤        |          | -        | -        | -        | -+       | $\dashv$      |               | 1 1      |       | 104      |          | $\vdash$        | +         | $\dashv$ | $\dashv$ | +        | +             | $\dashv$  | $\dashv$ |
|            | 3  | ├-                                     | ⊢              | -            | $\vdash$     | Н        | Н        | Н              | -        | $\dashv$ | 3        |          |                | ₩         | -        | -        | -        | -        | +        | $\dashv$      | +             | 1 1      |       | 105      |          | $\vdash$        | -         | $\dashv$ | $\dashv$ | -        |               | +         | $\dashv$ |
|            | d  | ├                                      | $\vdash$       |              | -            |          | Н        | Н              |          | $\dashv$ | 3        |          | <del>.</del> + | <u>!</u>  | -        | -        | $\vdash$ | $\dashv$ | +        | $\dashv$      | _             | 1 1      |       | 106      | _        | $\vdash$        | $\dashv$  | -        | $\dashv$ | -        | $\dashv$      | $\dashv$  | -        |
| -          | 1 4  | ⊢                                      | ┢              |              | $\vdash$     | H        | Н        | -              | $\dashv$ | $\dashv$ | 13       | 5        | <del>;  </del> | -         |          |          | -        |          |          | $\dashv$      |               | ┨        |       | 107      |          | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | +         | $\dashv$ |
| -          | 1  | ⊢                                      | ├              | ⊢            | ├-           |          |          | $\vdash$       | $\dashv$ | $\dashv$ | $\vdash$ | 58       |                | $\dashv$  | $\dashv$ | -        | -        | $\dashv$ | $\dashv$ | $\dashv$      | +-            | 1        |       | 108      | _        | -               |           |          |          | -        | $\dashv$      | $\dashv$  | $\dashv$ |
| <u> </u>   | \$   | H                                      | H              |              |              |          |          | $\vdash$       |          | $\dashv$ | -        | 59       | <del>;</del> + | -         | -        |          |          | -        | +        | $\dashv$      | -             | 1 1      |       | 109      |          | $\vdash$        | $\dashv$  | $\dashv$ |          | -        | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 10   | <del> </del>                           | ├              | ⊢            |              | -        | Н        | Н              |          | $\dashv$ | -        | 60       | <del>?  </del> | $\dashv$  | $\dashv$ | _        |          | -        | -        | +             |               | 1 1      |       | 110      |          | -               |           |          | $\dashv$ | +        | $\dashv$      | $\dashv$  | $\dashv$ |
| <u> </u>   |  | <del> </del>                           | $\vdash$       | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$       |          | $\dashv$ | $\vdash$ |          |                | $\dashv$  | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | $\dashv$      | +             | <b>┤</b> |       |          | $\vdash$ | $\vdash$        |           |          |          |          | $\dashv$      | $\dashv$  | $\dashv$ |
| <u></u>    | 12   | -                                      | -              | -            | ⊢            | $\vdash$ | $\vdash$ | $\vdash\vdash$ | -        | $\dashv$ | -        | 6        | Η.             | -         |          |          | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$      | +             | 1        |       | 111      |          |                 | -         |          |          |          | -+            | +         | $\dashv$ |
|            | 1  | -                                      | -              | ⊢            | ├-           | H        | Н        | $\vdash$       | _        | $\dashv$ | ļ        | 6:       |                | -         | -        |          | -        | -        | -        | $\dashv$      | +             |          |       | 112      |          | $\vdash$        |           |          | -        | -        | -             |           | $\dashv$ |
| <u></u>    | 13   | ⊢                                      | <del>  -</del> | <del> </del> | -            |          | Н        | Н              |          | $\dashv$ | -        | 63       |                | 4         |          | Ш        | Ш        |          | -        | $\dashv$      |               | <b>↓</b> |       | 113      | H        |                 |           |          | _        | _        | $\dashv$      | $\dashv$  | 4        |
| <b>├</b> ─ | 14   | <del> </del>                           | ⊢-             | <del> </del> | -            |          | Щ        | Ш              | $\dashv$ | _        | <u> </u> | 64       | 1              | 4         | 4        | $\sqcup$ | Щ        | _        | 4        | $\dashv$      | -             |          |       | 114      | <u> </u> |                 | 4         |          |          | _        | $\dashv$      | 4         | _        |
| <u></u>    | 15   | ₩                                      | <b> </b>       | <u> </u>     | Ь            | <b>-</b> |          | Ш              |          | _        | <u> </u> | 6        |                | _         | _        |          | Ш        | _        | _        | $\rightarrow$ |               |          |       | 115      | <u> </u> | $\vdash$        | _         |          |          | _        | $\dashv$      | 4         | $\dashv$ |
| <u> </u>   | 16   | $\vdash$                               | <u> </u>       | <u> </u>     | ļ            | $\vdash$ | Ш        | Ш              | _        | 4        | <u> </u> | 60       | <u> </u>       | _         |          |          | Щ        | _        | _        | 4             | -             | 1        | ļ     | 116      | $\vdash$ | $\sqcup$        | _         |          | _        | _        | $\dashv$      | 4         | ᆚ        |
| <u> </u>   | 17   | <b> </b> -                             | <u> </u>       | <u> </u>     | <del> </del> | <u> </u> | $\sqcup$ | Ш              | _        | _        | <u> </u> | 6        |                | _         | _        |          | Щ        | _        | _        | $\dashv$      | -             |          |       | 117      | <u> </u> | $\sqcup$        | _         |          |          | _        | $\dashv$      | 4         | _        |
|            | 18   | <u> </u>                               | <u> </u>       | _            | Ш            |          |          | Ш              | _        | 4        | $\vdash$ | 68       |                | _         | _        |          |          | _        | _        | $\dashv$      | _             | 1 1      |       | 118      | _        |                 |           | _        | _        | _        | _             | _         | $\dashv$ |
|            | 19   | L                                      | L              |              | 匚            |          |          | Ш              | $\dashv$ | _        | <u> </u> | 69       | 2              | _         | _        |          |          | _        | _        | 4             |               | 1        |       | 119      |          |                 | _         | _        |          | _        | _             | _         | _        |
| 1          |  | 2                                      | L_             | 匚            | L            |          |          | Ш              | $\perp$  |          |          | 70       | )              | _         | _        |          |          |          |          | $\perp$       |               |          |       | 120      |          |                 | _         |          |          |          | $\perp$       |           |          |
| 2          | 21   | Ц                                      |                |              | L            |          |          | Ш              |          | _        |          | 7        |                |           |          |          |          |          | _        |               |               | J I      |       | 121      |          |                 |           |          |          |          | ightharpoonup | _         |          |
| 3          | 22   | Ц                                      |                |              | L            |          |          | Ш              |          |          |          | 72       | 2              |           |          |          |          |          |          |               |               | 1        |       | 122      |          |                 |           |          |          |          | $\perp$       |           |          |
| 4          | 23   | Ц                                      | <u>_</u>       | <u> </u>     | L            |          |          | Ш              | _        | _        |          | 7:       |                | _         |          |          |          |          |          | _             |               | ]        |       | 123      | L        |                 |           |          |          |          | $\perp$       |           |          |
| 5          | 24   | П                                      |                | L            |              |          |          | Ш              | $\Box$   |          |          | 74       | 1              | $\perp$   |          |          |          |          |          |               |               |          |       | 124      |          |                 | $\Box$    |          |          | ]        |               |           |          |
| 6          | 25   | Ц                                      | L              | L            | L            |          |          | Ш              |          | _        |          | 75       |                |           |          |          |          |          |          |               |               | J I      |       | 125      |          | $\perp$         |           |          |          |          | $\perp$       | ${} \bot$ |          |
| 7          | 26   | Ц                                      |                | _            |              |          |          | Ш              | $\dashv$ | _        |          | 70       |                |           |          |          |          |          |          |               |               | 1        |       | 126      |          |                 |           |          |          |          | $\perp$       |           |          |
| 8          | 27   | Ш                                      | _              |              | <u> </u>     |          |          | Ш              | $\Box$   | _        |          | 7        |                | _         |          |          |          |          | _        |               |               | ]        |       | 127      |          |                 | _         | _        |          |          |               |           |          |
| 9          | 28<br>29   | 11                                     | L              | <u></u>      |              |          |          | Ш              | $\Box$   |          | L        | 78       |                |           |          |          |          |          |          |               |               |          |       | 128      |          |                 | $\Box$    |          |          |          |               |           |          |
| 11         | (29)   | Ш                                      | L              | L            | _            |          |          |                |          | _        |          | 79       |                |           |          |          |          |          |          |               | _             |          |       | 129      |          |                 |           |          |          |          |               |           |          |
| 12         | 30   | Ш                                      |                | _            | L            |          |          |                | _        |          |          | 80       |                |           |          |          |          |          |          |               |               |          |       | 130      |          |                 |           |          |          |          |               |           |          |
| 13         | 31   | Ш                                      |                |              |              |          |          |                |          |          | L        | 8        | Ш              |           |          |          |          |          |          |               |               |          |       | 131      |          |                 |           |          |          |          |               |           |          |
| 14         | 32   |  |                |              | $\Box$       |          |          |                |          |          |          | 82       |                |           |          |          |          |          |          |               |               |          |       | 132      |          |                 |           |          |          |          |               | $\Box$    |          |
| 15         | 33   | Щ                                      |                |              |              |          |          | $\square$      | $\Box$   | _]       |          | 83       | 3 📗            |           |          |          |          |          |          |               |               |          |       | 133      |          |                 |           |          |          |          |               |           |          |
| 16         | 34   | Щ                                      | L              | L            | $\Box$       |          |          |                |          | ┚        |          | 84       |                |           |          |          |          |          |          |               |               |          |       | 134      |          |                 |           |          |          |          | $\Box$        | ▔         |          |
| 17         | 35   | Ш                                      |                |              | $\Box$       |          |          |                |          |          |          | 8        |                | J         |          |          |          |          |          |               |               |          |       | 135      |          |                 |           |          |          | T        |               | $\Box$    |          |
| 18         | 36   | П                                      |                | 匚            | 匚            |          |          |                |          |          |          | 86       | 3              | ╝         |          |          |          |          |          | $\Box$        |               |          |       | 136      | L        |                 |           |          |          |          |               |           |          |
| 19         | 37   | Ш                                      | Ĺ              | L            | Ĺ            |          |          |                | $\Box$   | _]       |          | 8        |                | J         |          |          |          |          | J        | T             |               |          |       | 137      | Ĺ        |                 | $\Box$    |          |          |          | $\Box$        | $\Box$    |          |
| 20         | 38   | $\prod$                                |                |              |              |          |          |                |          |          |          | 88       |                |           |          |          |          |          |          |               |               |          |       | 138      |          | $\Box$          | $\neg$    |          | $\neg$   |          | $\exists$     | $\exists$ | $\neg$   |
| 21         | 39   | $\prod$                                |                |              |              |          |          |                |          | $\neg$   |          | 89       | 7              | T         |          |          |          |          | $\neg$   | $\neg$        |               |          |       | 139      |          | $\Box$          |           |          |          |          | 寸             | $\neg$    | $\neg$   |
| 23         | (40)   | $\Box$                                 |                |              |              |          |          |                |          | $\neg$   |          | 90       |                |           |          |          | П        | $\neg$   | 7        |               | $\neg \vdash$ | ]        |       | 140      |          |                 | $\exists$ |          |          |          | 寸             | $\dashv$  | $\neg$   |
| 24         |  | П                                      | Π              |              | Γ            |          |          | П              |          | $\neg$   |          | 9        | _              | 7         |          |          |          |          | $\neg$   | $\neg$        | $\neg \vdash$ | 1        |       | 141      |          |                 | T         |          |          | 寸        | $\dashv$      | $\dashv$  | $\dashv$ |
| 25         | 42   | Π                                      |                |              | Γ            |          |          | П              | $\neg$   | $\neg$   |          | 92       |                | $\exists$ | $\neg$   |          | П        | $\neg$   | $\dashv$ | $\neg$        | $\neg$        | 1        | -     | 142      |          |                 |           |          |          |          | $\dashv$      | $\dashv$  | $\dashv$ |
| 26         | 43   | Π                                      | Γ              |              | П            |          |          | П              | ヿ        | $\neg$   |          | 9:       |                | T         |          |          | П        | $\dashv$ | $\dashv$ | $\neg$        | $\neg \vdash$ | 1        |       | 143      |          | $\Box$          | $\neg$    |          |          | 1        | $\dashv$      | $\dashv$  | $\dashv$ |
| 27         | 44   | Π                                      | Г              |              | Г            |          |          | П              | $\neg$   | $\neg$   |          | 94       |                | T         |          |          |          | T        | 寸        |               | $\top$        | 1        |       | 144      | Г        | $\vdash$        |           | $\neg$   |          | $\neg$   | $\dashv$      | $\neg$    | ヿ        |
| 28         | 45   | IT                                     | Ι-             | <u> </u>     | Г            | П        |          | Н              | $\dashv$ | $\dashv$ |          | 9        |                | 7         | $\dashv$ |          | Н        | $\dashv$ | ┪        | $\dashv$      |               | 1        |       | 145      | Т        | $\vdash$        | $\neg$    | $\neg$   | _        | $\dashv$ | 十             | 7         | $\dashv$ |
| 29         | 46   | 1                                      | П              | T            | Г            | П        | М        | Н              | $\dashv$ | $\dashv$ |          | 96       |                | 7         | $\dashv$ |          | $\vdash$ | -        | 一        | $\dashv$      | $\vdash$      | 1        |       | 146      |          | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | 十             | $\dashv$  | ᅱ        |
| 30         | 47   | Ħ                                      | T              | $\vdash$     | ऻ            | П        | М        | -              | -        | $\dashv$ |          | 9        |                | 7         |          | Н        | $\vdash$ | $\dashv$ | +        | +             | +             | 1        |       | 147      | $\vdash$ | $\vdash \vdash$ | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | +         | ᅱ        |
| 32         | (48)   | H                                      | Ħ              | Г            | 1            | П        | М        | Н              | _        | $\dashv$ |          | 98       |                | +         | $\dashv$ |          | Н        | $\dashv$ | $\dashv$ | $\dashv$      | +             | 1        |       | 148      | Н        | $\vdash$        | $\dashv$  | -        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | ᅥ        |
| 33         | 49   | Ħ                                      | $\vdash$       |              | Г            | Н        | Н        | $\vdash$       | _        | $\dashv$ |          | 99       |                | ᅥ         | -        | $\dashv$ | H        | $\dashv$ | -        | $\dashv$      | $\top$        | 1        |       | 149      | $\vdash$ | $\vdash \vdash$ | -         | ᅱ        |          | $\dashv$ | $\dashv$      | 十         | ᅱ        |
| 34         | 50   | =                                      |                |              | 1            | $\vdash$ | П        | П              | 7        | $\dashv$ |          | 10       |                | $\dashv$  |          |          | Н        | $\dashv$ | 一        | _             | $\neg$        | 1        |       | 150      | Н        | $\vdash$        | 7         | $\neg$   | $\neg$   | _        | $\dashv$      | $\dashv$  | ᅱ        |
| <u> </u>   |  | ــــــــــــــــــــــــــــــــــــــ |                |              |              | _        | لنسا     | ш              |          |          |          |          |                |           |          |          |          |          | _        |               |               | ו נ      |       |          |          | $\perp$         |           |          |          |          |               | _         |          |